

PLL Leaflet

Analog-PLL For Spread Spectrum Clock

Key Features

- Including Loop-filter
- VCO operating range : 1600MHz - 3200MHz
- Output frequency range : 400MHz - 3200MHz
- Input frequency range : 10MHz - 200MHz
- Multiplying
 Output frequency / Input frequency : 2 - 320
- Fractional multiplying available
- SSC function available
 - Modulation frequency: 20kHz - 60kHz
 - Modulation depth: -1% --- -6% down spread
+/-0.5% --- +/-3% center spread
- Divider
 - 33-bit feedback divider
 - 3-bit input divider
- Power-down Mode

Technology

Process : TSMC 12nFFC

Available metallization technologies : 1p11M_2Xa1Xd3Xe2My2Mr

Operating Condition

Parameter		Min	Max	Unit
Operating Voltage (AVDD)		1.6	1.98	V
Operating Voltage (VDD)		0.72	0.88	V
Junction Temperature		-40	125	°C
Input Clock	Duty	20	80	%
	Rise / Fall time	-	0.2	ns